



# SAP NETWEAVER ON HANA

An installation guide

## Abstract

A step by step guide to install SAP NetWeaver on HANA when application layer runs on Azure and database layer on Large Instances.

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## Overview

This blog describes the SAP NetWeaver installation steps on the SAP HANA database.

In this setup, the HANA Large Instance server is used to install the SAP HANA database, and SAP NetWeaver application layer runs on the Azure VM. This is a *hybrid* mode installation where SAP application is installed on Windows operating system in Azure, and the HANA database is installed on the HANA Large Instances on the linux operating system.

## Pre-Requisite

- SAP HANA Large Instance is provisioned
  - More detail on HANA Large Instances is available here: <https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/hana-overview-architecture>
- Azure vNET is connected to HANA Large Instances.
  - Please read an article to setup connectivity from Azure vNET to HANA Large Instances: <https://blogs.msdn.microsoft.com/saponsqlserver/2017/06/01/end-to-end-setup-for-sap-hana-large-instances/>
- Virtual Machine is up and running for SAP Application layer
- You have read master guide and installation guide from SAP
- You have checked the SAP Products Availability Matrix and checked the SAP HANA version and Windows Server version is supported

## Setup Detail

- HANA Large Instance Server and IP: saprrddhb75 / 10.35.0.175
- HANA Version: SAP HANA 2.0 SP1
- Operating System for HANA: SUSE 12 SP2
- NW Version: SAP NetWeaver 740 SR2
- SAP Kernel 7.49 (Kernel Updated during installation to latest supported kernel)
- Operating System for NW: Window 2012 R2

## Software Download

You need to download the following installation files from the SAP Market place.

- Installation export
- SAP Kernel
- HANA Platform edition
- SWPM

In this example, SAP NetWeaver is installed on the Windows platform, so please download the installation packages for "Microsoft Windows". Download the installation packages on the Azure VM itself.

SAP NETWEAVER / SAP NETWEAVER 7.4 /

INSTALLATION AND UPGRADE

DOWNLOADSINFOECCN INFO

Multispanning: Packages that are larger than 4 GB will be packed in an archive, which is split into 4 GB parts. All archives need to be downloaded and unpacked. For more details on multispanning and how to extract the multi-part .exe archive on UNIX [See SAP Note 886535](#).

Items Available to Download (25)

MICROSOFT WINDOWS

SAP HANA

<input checked="" type="checkbox"/>	<b>51050819_1</b> NW 7.4 SR2 Installation Export	ZIP	2817307 KB	04.10.2016	04.10.2016	<div></div>
<input checked="" type="checkbox"/>	<b>51050818_10</b> SAP Kernel 7.42 Windows Server on x64 64bit	ZIP	2641120 KB	29.09.2016	29.09.2016	<div></div>

SAP NETWEAVER / SAP NETWEAVER 7.4 /

SOFTWARE PROVISIONING MGR 1.0

DOWNLOADSINFOECCN INFO

Multispanning: Packages that are larger than 4 GB will be packed in an archive, which is split into 4 GB parts. All archives need to be downloaded and unpacked. For more details on multispanning and how to extract the multi-part .exe archive on UNIX [See SAP Note 886535](#).

Items Available to Download (4)

WINDOWS ON X64 64BIT

<input checked="" type="checkbox"/>	<b>SWPM10SP20_6-20009707.SAR</b> SWPM 1.0 SP20 for NW higher than 7.0x	6 SAR	673306 KB	24.08.2017	24.08.2017	<div></div>
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## SAP HANA Installation

This section describes the SAP HANA 2.0 SP1 installation on HANA Large Instances. HANA Large instances comes with pre-installed OS (BYOS model) and the pre-configured storage based on the SKU and SID you requested.

The user sidadm and group sapsys is already created for you at the time of OS setup. The UID and GID is the same what was provided in the service request form (SRF) for the HANA Large Instances.

In this example, the following information is used:

- HANA Large Instance Server Name: sapprdhdb75
- Operating system: SUSE 12 SP2
- SID: H11
- Instance No: 00
- UID (h11adm): 1001
- GID (sapsys): 1000

The HANA Large Instances do not have direct internet connectivity. Please download the SAP HANA installation package to Azure VM, and then copy the HANA installation package to the HANA Large Instance server. You can use utility like WinSCP to copy the files from the Azure VM to the HANA Large Instance server.

Please also read the section “Install SAP HANA on the HANA Large Instance unit” of the article <https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/hana-installation>

You can start the HANA installation using *hdblcmgui*. This starts the HANA installation in the graphical user interface. If you encounter the following error, ensure that you have x server running and you SSH to putty with “enable x11 forwarding”. Also read SAP note 2358582.

```

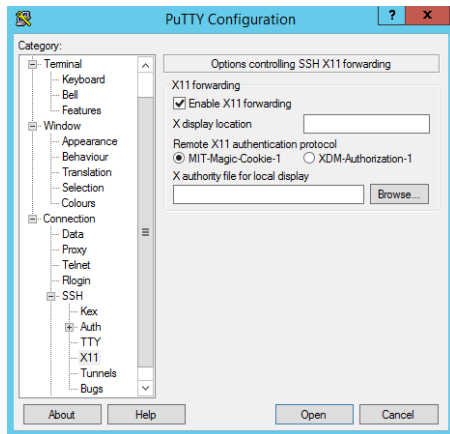
10.35.0.175 - PuTTY
sapprdhdb75:/hana/logbackups/HANA20SPS1_51052030/DATA_UNITS/HDB_LCM_LINUX_X86_64 # ./hdblcmgui
13:08:03: Error: Unable to initialize GTK+, is DISPLAY set properly?
SAP HANA Installer Runtime Error:
perl compilation error (loading LCM::Gui::App::LCMGuiApp):
cannot load wxWidgets properly (distcompat): Failed to initialize wxWidgets at sdbrun/Require.pl line 62.
BEGIN failed--compilation aborted at SDB/Install/App/Gui.pm line 6.
BEGIN failed--compilation aborted at LCM/Gui/App/LCMGuiApp.pm line 6.
sapprdhdb75:/hana/logbackups/HANA20SPS1_51052030/DATA_UNITS/HDB_LCM_LINUX_X86_64 #

```

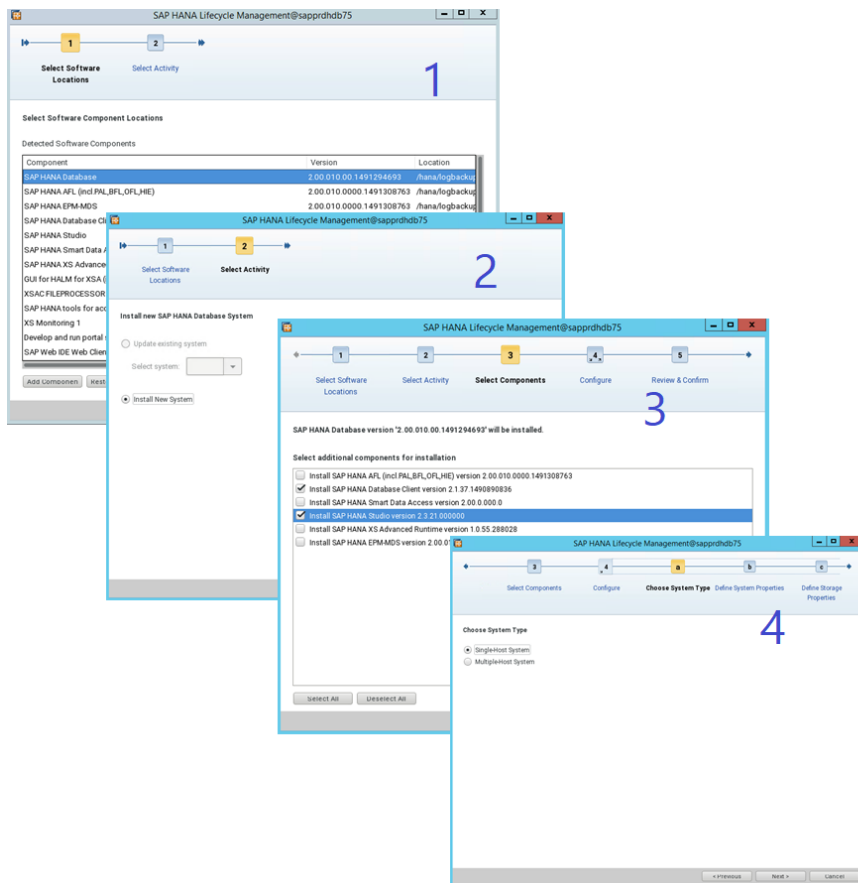
```

sapprdhdb75:/hana/logbackups/HANA20SPS1_51052030/DATA_UNITS/HDB_LCM_LINUX_X86_64 # ./hdblcmgui
13:08:03: Error: Unable to initialize GTK+, is DISPLAY set properly?
SAP HANA Installer Runtime Error:
perl compilation error (loading LCM::Gui::App::LCMGuiApp):
cannot load wxWidgets properly (distcompat): Failed to initialize wxWidgets at sdbrun/Require.pl line 62.
BEGIN failed--compilation aborted at SDB/Install/App/Gui.pm line 6.
BEGIN failed--compilation aborted at LCM/Gui/App/LCMGuiApp.pm line 6.
sapprdhdb75:/hana/logbackups/HANA20SPS1_51052030/DATA_UNITS/HDB_LCM_LINUX_X86_64 #

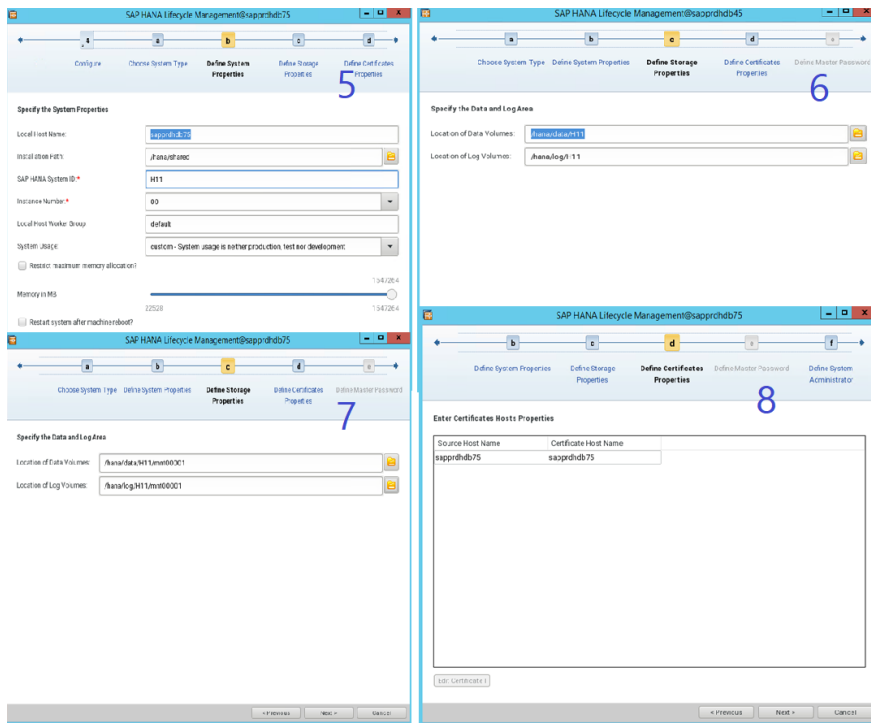
```



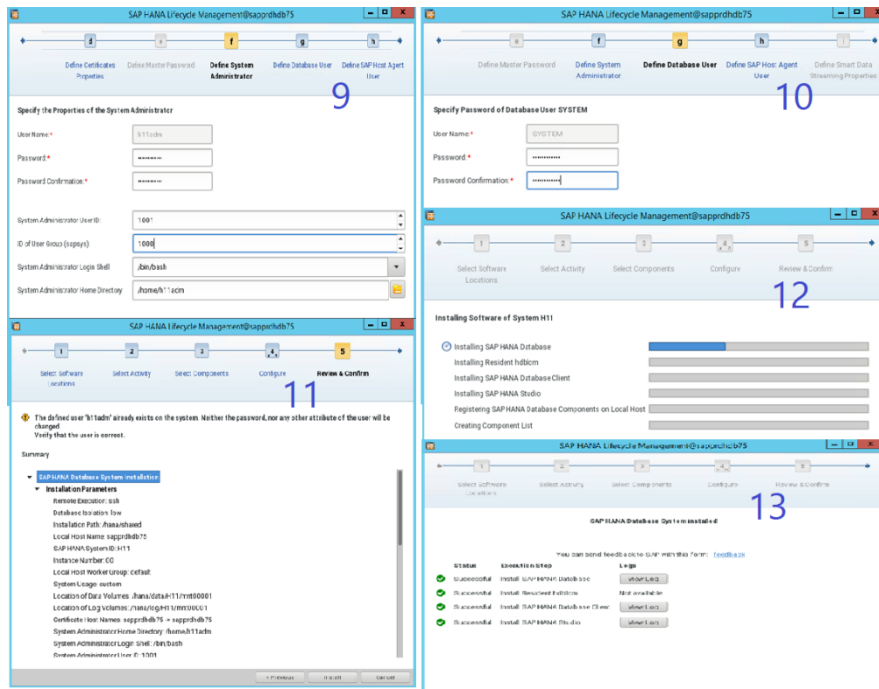
- Select the component to be installed for SAP HANA. In this example, only the SAP HANA database component is installed with single host



- Input the SID, instance number, and the data and log area



- Input the password for administrator, and system user. Proceed with the installation

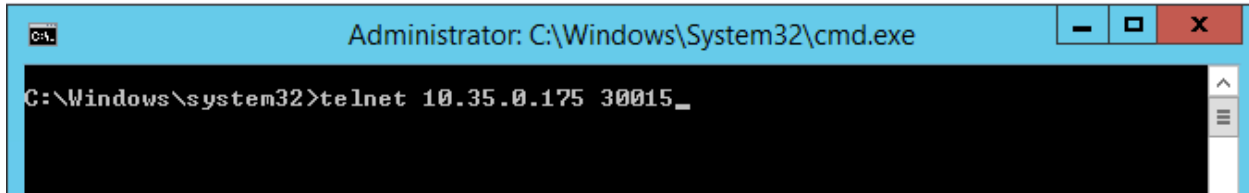


- It takes about 10 minutes for the HANA installation. After the install, try to connect using HANA Studio.

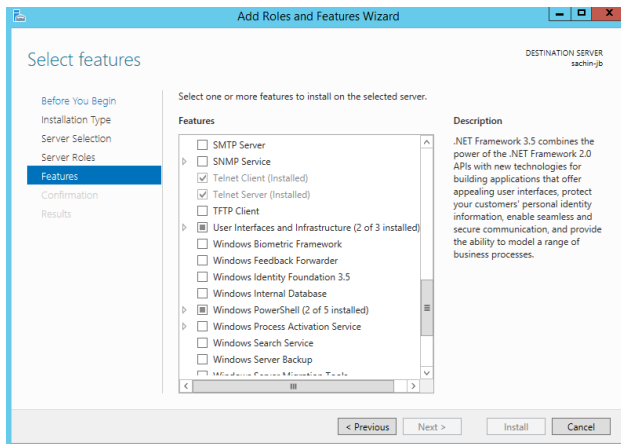
## Troubleshooting

If you are not able to connect using HANA studio, then try the following:

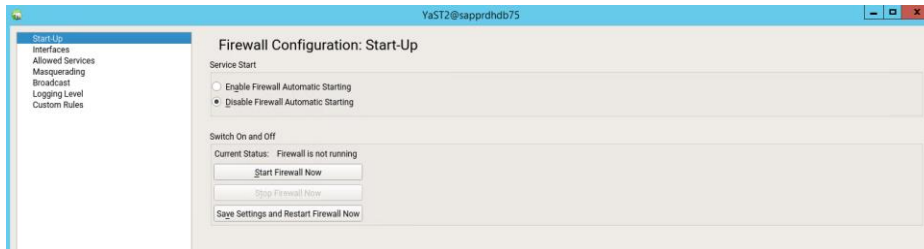
- Try connecting from your jump box using telnet using the port HANA studio using. It should succeed. If not, then you need to fix it.



- If you don't have Telnet installed, install from Server Manager>Add roles and Features>Next>Telnet Server



- Disable the firewall on HLI YAST2>Firewall>Stop Firewall Now  
Note: This is for troubleshooting only. You should not keep the firewall disabled.





## SAP NetWeaver Installation

SAP NetWeaver Installation is done using the SWPM tool. Here are the specification of the SAP NetWeaver Installation.

This is a distributed system installation; and the following components gets installed in the sequence.

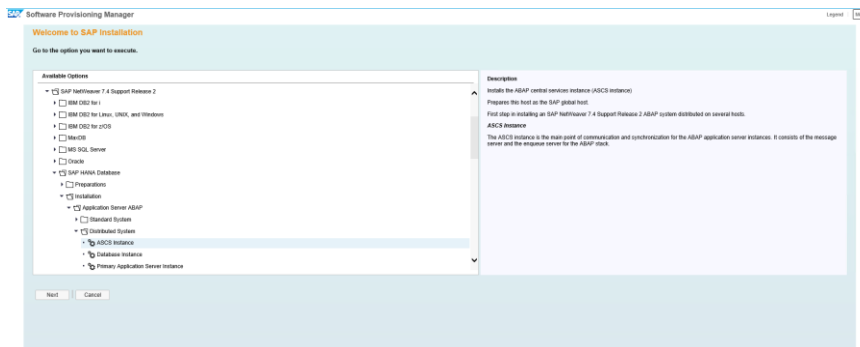
- ASCS Instance
- Database Instance
- Primary Application Server Instance

In this example, the following inputs are used:

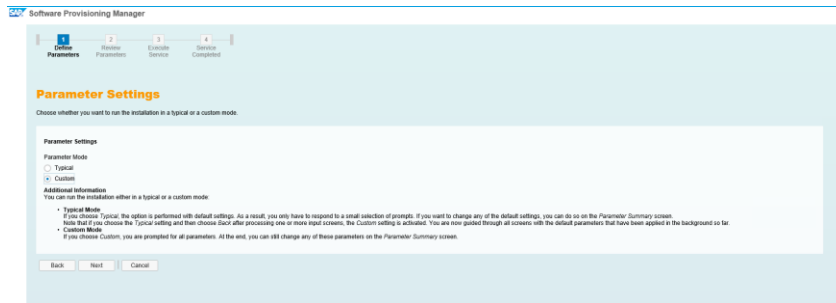
- SAP NetWeaver Version: SAP NW 740 SR2
- Operating System: Windows 2012 R2
- Server type: Virtual Machine in Azure
- SAPSID: H11
- Domain: local domain
- ASCS Instance No: 00
- HANA DB Instance No: 00
- PAS Instance No: 01

### ASCS Instance Installation

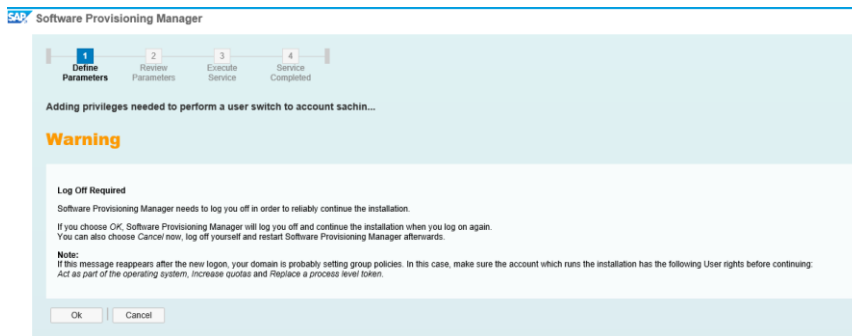
- Double click *sapinst* from SWPM download directory. In this example location of sapinst is H:\SAPNW74Download\SWPM1SP20.
- Select ASCS Instance option



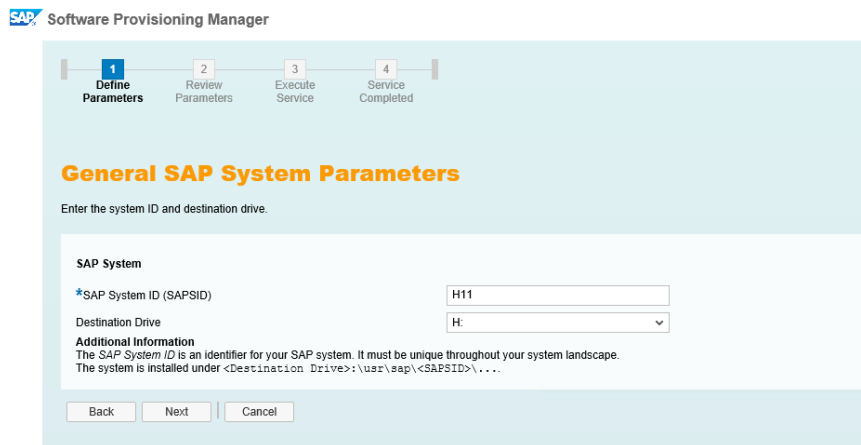
- Select custom option



- You need to logoff and login again from the server you are doing the installation



- Input the SID and Destination drive



- Select FQDN and input the domain name. In this example, no FQDN is set



- Input the Master password

The screenshot shows the 'Master Password' step in the SAP NetWeaver installation wizard. At the top, a progress bar indicates four steps: 1. Define Parameters (active), 2. Review Parameters, 3. Execute Service, and 4. Service Completed. Below the progress bar, the title 'Master Password' is displayed in orange. The instruction reads: 'Enter the master password for all users.' The main content area contains a section titled 'Master Password' with the text: 'The master password is used for all users that are created. Check the tool help for restrictions and dependencies.' Below this, there are two password input fields: '\*Password for All Users' and '\*Confirm'. Both fields are currently filled with dots. At the bottom, there is an 'Additional Information' section with text explaining that individual passwords can be set in the 'Parameter Summary' screen, but a new master password will overwrite these settings. At the very bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

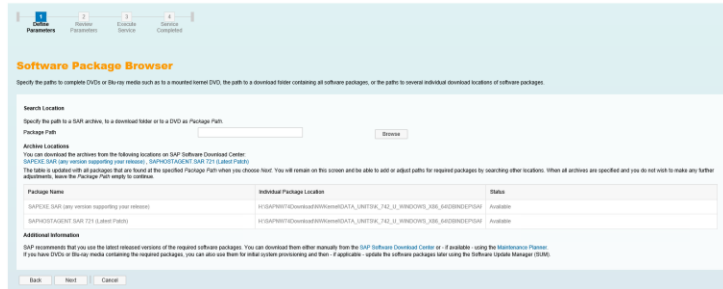
- Input the SID, and select the Domain

The screenshot shows the 'Windows Domain' step in the SAP NetWeaver installation wizard. The progress bar at the top shows the same four steps as the previous screen. The title 'Windows Domain' is displayed in orange. The instruction reads: 'Choose the Windows domain in which you want to create the SAP system accounts.' The main content area contains a section titled 'SAP System User Domain' with a text field for 'SAP System ID (SAPSID)' containing the value 'H11'. Below this, there are three radio button options for 'Domain Model': 'Local Domain' (selected), 'Domain of Current User', and 'Different Domain'. Below these options, there is a text field for '\*Windows Domain'. At the bottom, there is an 'Additional Information' section with bullet points explaining the implications of each domain model choice. At the very bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

- Input the password for administrator and service users

The screenshot shows the 'Operating System Users' step in the SAP NetWeaver installation wizard. The progress bar at the top shows the same four steps as the previous screens. The title 'Operating System Users' is displayed in orange. The instruction reads: 'Enter the passwords of the operating system users.' The main content area contains two sections. The first section is titled 'SAP System Administrator' and shows the account 'sachin-jb/h11adm'. It has two password input fields: '\*Password of SAP System Administrator' and '\*Confirm'. The second section is titled 'SAP System Service User' and shows the account 'sachin-jb/SAPServiceH11'. It also has two password input fields: '\*Password of SAP System Service User' and '\*Confirm'. All password fields are currently filled with dots. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

- Input the package location



**Software Package Browser**

Specify the paths to complete DVDs or Blu-ray media such as to a mounted format DVD, the path to a download folder containing all software packages, or the paths to several individual download locations of software packages.

Search Location  
Specify the path to a SAP archive, to a download folder or to a DVD as Package Path.

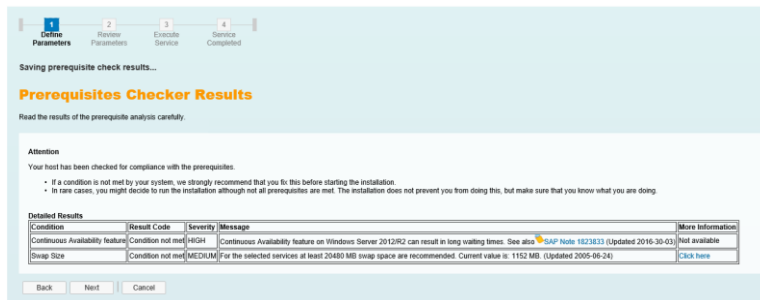
Package Path

Archive Locations  
You can download the archives from the following locations on SAP Software Download Center  
SAPACE SAP only (archive supporting user release) SAPHOSTAGENT SAP T21 (Latest F003)  
The table is updated with all packages that are listed at the specified Package Path when you choose Next. You will remain on this screen and be able to add or adjust paths for required packages by searching other locations, when all archives are specified and you do not wish to make any further adjustments, leave the Package Path empty to continue.

Package Name	Individual Package Location	Status
SAPACE SAP only (archive supporting user release)	in SAP Software Download Center	Available
SAPHOSTAGENT SAP T21 (Latest F003)	in SAP Software Download Center	Available

**Additional Information**  
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or, if available, using the Maintenance Planner.  
If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then, if applicable, update the software packages later using the Software Update Manager (SUM).

- Review the prerequisite checker result



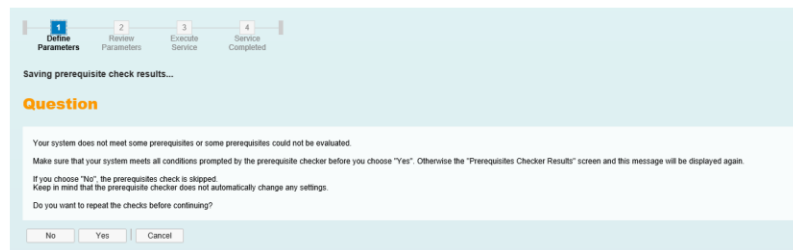
**Prerequisites Checker Results**

Read the results of the prerequisite analysis carefully.

**Attention**  
Your host has been checked for compliance with the prerequisites.

- If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.
- In rare cases, you might decide to run the installation although not all prerequisites are met. The installation does not prevent you from doing this, but make sure that you know what you are doing.

Condition	Result Code	Severity	Message	More Information
Continuous Availability feature	Condition not met	HIGH	Continuous Availability feature on Windows Server 2012R2 can result in long waiting times. See also <a href="#">SAP Note 1623833</a> (Updated 2016-03-03)	Not available
Swap Size	Condition not met	MEDIUM	For the selected services at least 20480 MB swap space are recommended. Current value is: 1152 MB. (Updated 2005-06-24)	<a href="#">Click here</a>



**Question**

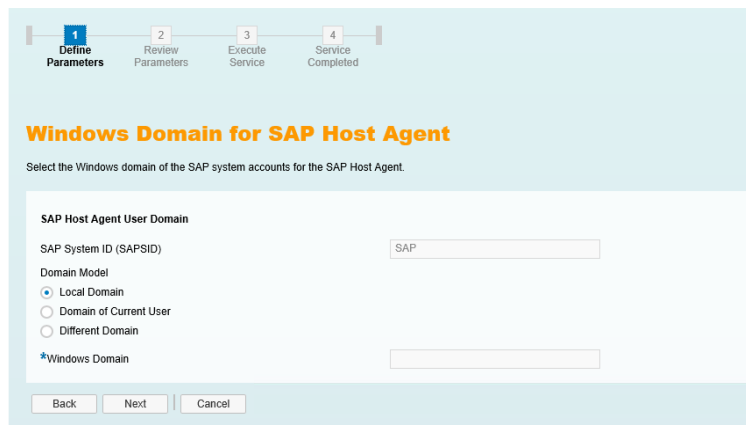
Your system does not meet some prerequisites or some prerequisites could not be evaluated.

Make sure that your system meets all conditions prompted by the prerequisite checker before you choose "Yes". Otherwise the "Prerequisites Checker Results" screen and this message will be displayed again.

If you choose "No", the prerequisites check is skipped.  
Keep in mind that the prerequisite checker does not automatically change any settings.

Do you want to repeat the checks before continuing?

- Select the domain for Host agent. In this example, local domain is selected



**Windows Domain for SAP Host Agent**

Select the Windows domain of the SAP system accounts for the SAP Host Agent.

**SAP Host Agent User Domain**

SAP System ID (SAPSID)

Domain Model

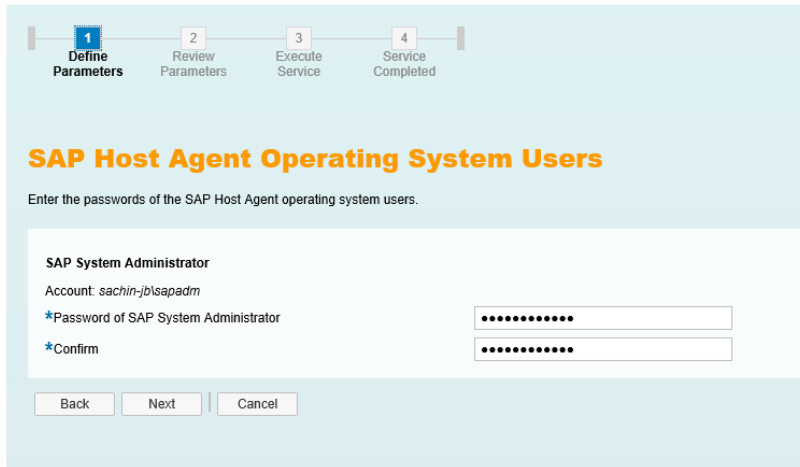
☒ Local Domain

☐ Domain of Current User

☐ Different Domain

\*Windows Domain

- Input host agent password



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### SAP Host Agent Operating System Users

Enter the passwords of the SAP Host Agent operating system users.

**SAP System Administrator**  
 Account: `sachin-blsapadm`  
 \*Password of SAP System Administrator:   
 \*Confirm:

Back Next Cancel

- Input the ASCS instance and host name



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### ASCS Instance

Enter the instance parameters for the ABAP central services (ASCS) instance.

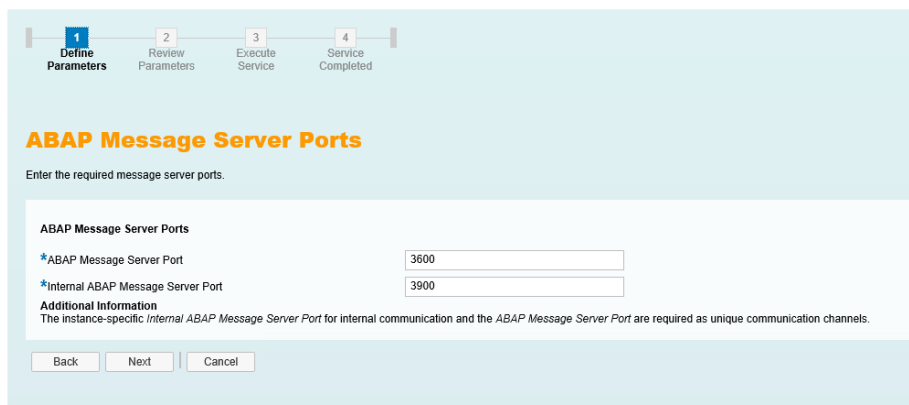
**ASCS Instance**  
 The following SAP system instances already exist on this host:

SAP System ID (SAPSID)	Instance Name	Instance Number
	No data	

\*ASCS Instance Number:   
 \*ASCS Instance Host Name:   
**Additional Information**  
 The ASCS instance requires an instance number and a host name as a technical identifier for internal processes, such as assigned memory. The host name can be either the physical host name or one of the virtual host names. In a high-availability system installation, use a virtual host name. The instance number must be unique for this installation host.

Back Next Cancel

- Validate the ports



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### ABAP Message Server Ports

Enter the required message server ports.

**ABAP Message Server Ports**  
 \*ABAP Message Server Port:   
 \*Internal ABAP Message Server Port:

**Additional Information**  
 The instance-specific *Internal ABAP Message Server Port* for internal communication and the *ABAP Message Server Port* are required as unique communication channels.

Back Next Cancel

- Select if additional components to be installed

**Additional Components to be Included in the ASCS Instance**

Choose the additional components you want to have installed in the ASCS instance.

**Enable Additional Components**

☐ Install an SAP Web Dispatcher integrated in the ASCS instance

☐ Install an SAP Gateway integrated in the ASCS instance

**Additional Information**

If you choose install an SAP Web Dispatcher integrated in the ASCS instance, an SAP Web Dispatcher is installed in the ASCS instance. No separate SAP Web Dispatcher instance is created. This is recommended if you want to use the SAP Web Dispatcher for the system to which the ASCS instance belongs. If you want to install an SAP Web Dispatcher for another system - that is, for the system for which you use the ASCS instance - you can also install SAP Web Dispatcher separately. See the documentation [Installation Guide - Installation of SAP Web Dispatcher for SAP Systems Based on SAP NetWeaver 7.1 to 7.5](#) at <http://support.sap.com/instadocinst> -> System Provisioning -> Installation Option.

If you choose install an SAP Gateway integrated in the ASCS instance, an SAP Gateway is installed in the ASCS instance. No standalone SAP Gateway instance is created. An SAP Gateway integrated in the ASCS instance is recommended, for example, when you set up a Microsoft Failover Cluster.

If the SAP Gateway is required for other purposes, you can also install a standalone SAP Gateway instance. See the documentation [Installation Guide - Installation of a Standalone Gateway Instance for SAP Systems Based on SAP NetWeaver 7.1 to 7.5](#) at <http://support.sap.com/instadocinst> -> System Provisioning -> Installation Option.

**Caution:** In Microsoft Failover Cluster installations, do not install a standalone SAP Gateway on cluster nodes. Instead, follow the instructions in [SAP Note 1754050](#).

- Review the inputs

**Parameter Summary**

Choose "Next" to start with the values shown. Otherwise, select the parameters to be changed and choose "Review". You are then taken to the screen where you can change the parameter. You might be guided through other screens that have so far been processed.

**Parameter List**

☐ Parameter Settings

**Parameter Mode**

☐ Typical

☒ Custom

☐ General SAP System Parameters

SAP System ID (SAPSID)

Destination Drive

☐ DNS Domain Name

☐ Set FQDN for SAP system

☐ Master Password

Password for All Users

☐ Windows Domain

**Domain Model**

☒ Local Domain

☐ Domain of Current User

☐ Different Domain

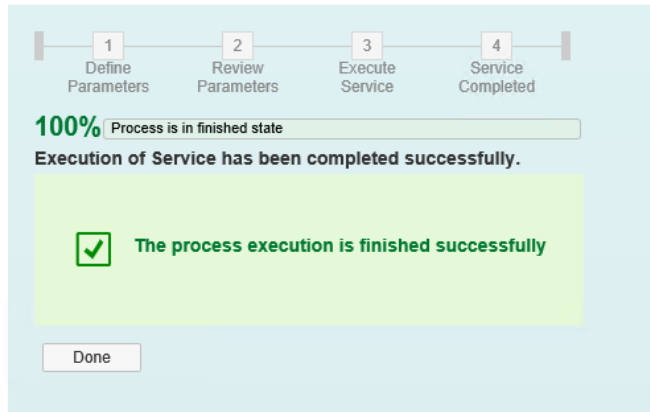
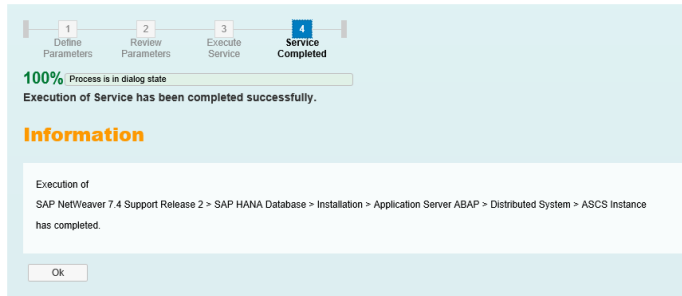
- Start the installation

**Execute Service**

27% **Process is in running state**

Creating account sachin-jblh11adm for system H11...

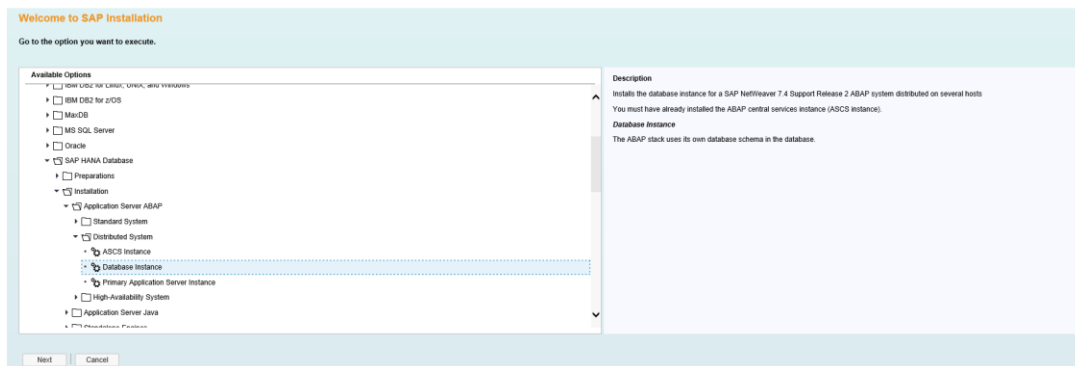
- Installation is complete



The ASCS installation takes about 10 minutes to complete

## Database Instance Installation

- Start the *sapinst* again; select the Database instance option.
- Please note, HANA database should already have been installed before you begin with this step



- Select the custom mode



**Parameter Settings**

Choose whether you want to run the installation in a typical or a custom mode.

**Parameter Settings**

Parameter Mode

☐ Typical

☒ Custom

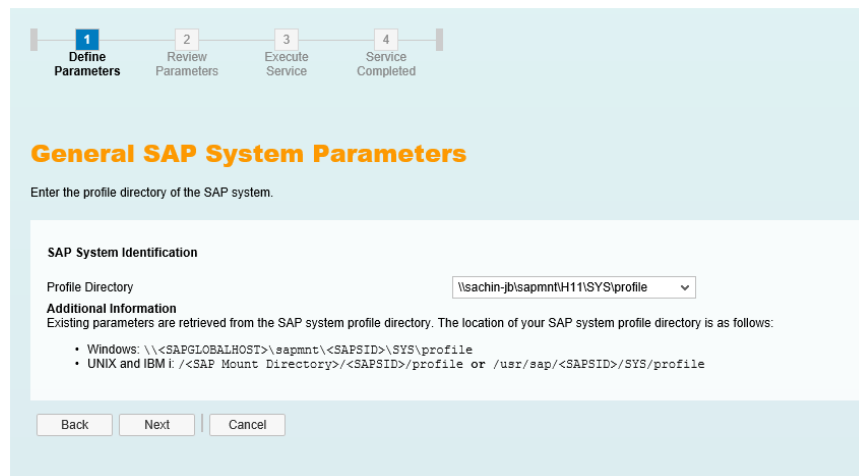
**Additional Information**

You can run the installation either in a typical or a custom mode.

- Typical Mode:** If you choose Typical, the system is performed with default settings. As a result, you only have to respond to a small selection of prompts. If you want to change any of the default settings, you can do so on the Parameter Summary screen. Note that if you choose the Typical setting and then choose Back after processing one or more input screens, the Custom setting is activated. You are now guided through all screens with the default parameters that have been applied in the background so far.
- Custom Mode:** If you choose Custom, you are prompted for all parameters. At the end, you can still change any of these parameters on the Parameter Summary screen.

Back Next Cancel

- Input the profile directory



**General SAP System Parameters**

Enter the profile directory of the SAP system.

**SAP System Identification**

Profile Directory: \\sachin-jb\sapmnt\H11\SYS\profile

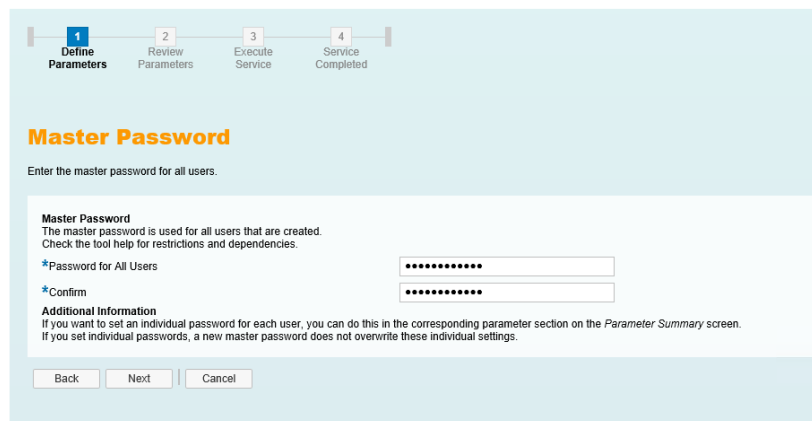
**Additional Information**

Existing parameters are retrieved from the SAP system profile directory. The location of your SAP system profile directory is as follows:

- Windows: \\<SAPGLOBALHOST>\sapmnt\<SAPSID>\SYS\profile
- UNIX and IBM i: /<SAP Mount Directory>/<SAPSID>/profile or /usr/sap/<SAPSID>/SYS/profile

Back Next Cancel

- Input the master password



**Master Password**

Enter the master password for all users.

**Master Password**

The master password is used for all users that are created. Check the tool help for restrictions and dependencies.

\*Password for All Users: [Masked Password]

\*Confirm: [Masked Password]

**Additional Information**

If you want to set an individual password for each user, you can do this in the corresponding parameter section on the Parameter Summary screen. If you set individual passwords, a new master password does not overwrite these individual settings.

Back Next Cancel

- Set FQDN, if needed. In this example, no FQDN is set



**DNS Domain Name**

Enter the DNS domain name for the SAP system to calculate the fully qualified domain name (FQDN).

**SAP System Domain Name**

☐ Set FQDN for SAP system

**Additional Information**

The DNS Domain Name is used to calculate the Fully Qualified Domain Name (FQDN), which is configured in profile parameter SAPLOCALHOSTFULL. This parameter is needed to define the URLs for the ABAP and Java application servers. See SAP Note 654982.

Back Next Cancel



- Review the OSS note 1990894

**1 Define Parameters**    2 Review Parameters    3 Execute Service    4 Service Completed

### Information

In this version of Software Provisioning Manager, the R3load mass loader for SAP HANA is disabled by default. Depending on your R3load version, you can enable it by stopping SAPinst, setting the environment variable HDB\_MASSIMPORT = YES, and restarting SAPinst.

For more information, including the list of applicable versions of R3load, see SAP Note 1990894.

Caution: If your R3load version is lower than the versions listed in SAP Note 1990894, do NOT enable the R3load mass loader, as this can lead to data corruption.

Ok    Cancel

- Input the database instance specific values

**1 Define Parameters**    2 Review Parameters    3 Execute Service    4 Service Completed

### Database for SAP System

Enter the database parameters.

**SAP HANA Database or Database Tenant**

\*Database ID (DBSID)    H11

\*Database Host    10.35.0.175

\*Instance Number of the SAP HANA Database    00

\*Password of the SAP HANA Database System Administrator    .....

**Additional Information**

If you are using a SAP HANA multitenant database container, specify for the database parameters the Database ID and the Password of the database tenant. The Instance Number and the Database Host have to be from the system database. The database tenant is created if it does not exist.

**Caution:** If you install a SAP NetWeaver-based SAP system and the SAP HANA database on the same host, you must use a Database ID (DBSID) for the SAP HANA database that is different from the SAP System ID (SAPSID) you later specify for the installation of the SAP NetWeaver-based SAP system.

Back    Next    Cancel

- Input the *SystemDB* information

**1 Define Parameters**    2 Review Parameters    3 Execute Service    4 Service Completed

### SAP HANA Multitenant Database Containers

Enter the database parameters for the system database.

**System Database**

Database ID (DBSID)    SystemDB

\*Database Host    10.35.0.175

\*Instance Number of the SAP HANA Database    00

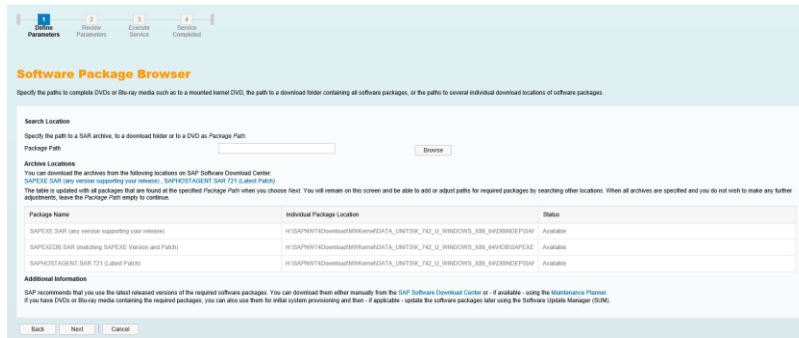
\*Password of the SAP HANA Database Superuser    ..... 🔍

**Additional Information**

Note that you can only use an existing SAP HANA multitenant database container.

Back    Next    Cancel

- Input the software package location



**Software Package Browser**

Specify the paths to complete DVDs or Blu-ray media such as to a mounted named DVD, the path to a download folder containing all software packages, or the paths to several individual download locations of software packages.

**Search Location**  
Specify the path to a SAR archive, to a download folder or to a DVD as Package Path.

Package Path:  Browse

**Archive Location**  
You can download the archives from the following locations on SAP Software Download Center:  
SAPFESD SAR (any version supporting your release), SAPHOSTAGENT SAR T21 (Latest Patch)  
The table is updated with all packages that are found at the specified Package Path when you choose Next. You will remain on this screen and be able to add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the Package Path empty to continue.

Package Name	Individual Package Location	Status
SAPFESD SAR (any version supporting your release)	H:\SAP\NW74\Download\MW\Name\DATA_UNIT\X_742_3L_WINDOWS_X86_64\CD\INDEX.PSDM	Available
SAPFESD SAR (including SAPFESD Version and Patch)	H:\SAP\NW74\Download\MW\Name\DATA_UNIT\X_742_3L_WINDOWS_X86_64\CD\INDEX.PSDM	Available
SAPHOSTAGENT SAR T21 (Latest Patch)	H:\SAP\NW74\Download\MW\Name\DATA_UNIT\X_742_3L_WINDOWS_X86_64\CD\INDEX.PSDM	Available

**Additional Information**  
SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.  
If you have DVDs or Blu-ray media containing the required packages, you can also use them to install system provisioning and then - if applicable - update the software packages later using the Software Update Manager (SUM).

Back Next Cancel

- Review the prerequisite checker result



**Prerequisites Checker Results**

Read the results of the prerequisite analysis carefully.

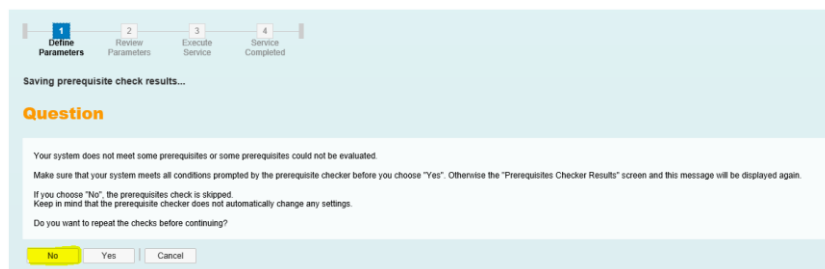
**Attention**  
Your host has been checked for compliance with the prerequisites.

- If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.
- In rare cases, you might decide to run the installation although not all prerequisites are met. The installation does not prevent you from doing this, but make sure that you know what you are doing.

**Detailed Results**

Condition	Result Code	Severity	Message	More Information
Continuous Availability feature	Condition not met	HIGH	Continuous Availability feature on Windows Server 2012/R2 can result in long waiting times. See also <a href="#">SAP Note 1823633</a> (Updated 2016-06-03)	Not available

Back Next Cancel



**Question**

Your system does not meet some prerequisites or some prerequisites could not be evaluated.


Make sure that your system meets all conditions prompted by the prerequisite checker before you choose "Yes". Otherwise the "Prerequisites Checker Results" screen and this message will be displayed again.

If you choose "No", the prerequisites check is skipped.  
Keep in mind that the prerequisite checker does not automatically change any settings.

Do you want to repeat the checks before continuing?

No Yes Cancel

- Input the export1 package location



**Media Browser**

Enter the location of the required software packages.

**Software Package Requests**

Media	Package Location
Installation (Export NW74B SP2 (Index EXP1))	H:\SAP\NW74\Download\NW74B\SP2\INDEX.EXP1

**Additional Information**  
The required software packages available on the media are detected using the identification file LOGS\_SAP or LOGS\_EXP1.  
If there are complete media available on the host, you only need to enter the path to the root directory of the media in the Package Location column.

Next Cancel

- Input the export3 package location

**Media Browser**

Enter the location of the required software packages.

**Software Package Requests**

Media	Package Location
Installation Export NW740 SR2 (Solar EXP3)	H:/SAP/NW740/Download/NW740bu51050819_1/DATA_UNITS/EXP3

**Additional Information**  
The required software packages available on the media are detected using the identification files LABEL.ASC or LABEL102.ASC.  
If there are complete media available on the host, you only need to enter the path to the root directory of the media in the Package Location column.

Next Cancel

- Input the export2 package location

**Media Browser**

Enter the location of the required software packages.

**Software Package Requests**

Media	Package Location
Installation Export NW740 SR2 (Solar EXP2)	H:/SAP/NW740/Download/NW740bu51050819_1/DATA_UNITS/EXP2

**Additional Information**  
The required software packages available on the media are detected using the identification files LABEL.ASC or LABEL102.ASC.  
If there are complete media available on the host, you only need to enter the path to the root directory of the media in the Package Location column.

Next Cancel

- Review the *SystemDB* information

**SAP HANA Multitenant Database Containers**

Enter the database parameters for the system database.

**System Database**

Database ID (DBSID): SystemDB

\*Database Host: 10.35.0.175

\*Instance Number of the SAP HANA Database: 00

\*Password of the SAP HANA Database Supersuser: \*\*\*\*\*

**Tenant Database**

Tenant ID: H11

☐ Recreate Database Tenant

**Additional Information**  
Note that you can only use an existing SAP HANA multitenant database container.  
Specify the connectivity data. Choose Recreate Database Tenant only if you have decided to delete all content of the database tenant including all users, schemas, and roles. In addition, the tenant-specific configuration is initialized.  
Choose this option if you are doing a reinstall or a refresh of the system. The advantage of recreating the tenant database compared to 'drop user' is that all data is instantly deleted, which leads to better performance during data import.  
Recreate Tenant Database is only available for system copy.

Back Next Cancel

- Input the database schema password

**Database Schema**

Enter the database schema password.

**Database Schema**

Database ID: H11

Database Host: 10.35.0.175

Instance Number of the SAP HANA Database: 00

\*Schema: DBACOCKPIT

☐ Drop Existing Schema

\*Schema Password: \*\*\*\*\*

\*Confirm: \*\*\*\*\*

**Additional Information**  
Follow the relevant instructions for your scenario:

- Installation / System Copy / Migration (Load Based)  
The schema must either not exist in the database or if it exists, the checkboxes for dropping the existing schema must be checked, in which case all data in the existing schema is deleted.  
The only exception is the DBACOCKPIT schema, which can be used by multiple systems and does not have to be dropped if it exists.
- Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)  
For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by the installer.
- System Restore  
Verify that the schema name is the correct one for the system to be renamed and enter the password.

Back Next Cancel

1 Define Parameters 2 Review Parameters 3 Enable Service 4 Service Completed

### Database Schema

Enter the database schema password

Database Schema

Database ID: H11

Database Host: 10.35.0.175

Instance Number of the SAP HANA Database: 00

\*Schema: SAPABAP1

☐ Drop Existing Schema

\*Schema Password: \*\*\*\*\*

\*Confirm: \*\*\*\*\*

Additional Information

Follow the relevant instructions for your scenario:

- **Installation / System Copy / Migration (Load Based)**  
The schema must either not exist in the database or it exists, the checkbox for dropping the existing schema must be checked, in which case all data in the existing schema is deleted. The only exception is the C8AC00017 schema, which can be used for multiple systems and does not have to be dropped if it exists.
- **Heterogeneous System Copy (SAP HANA-Specific Backup / Recovery)**  
For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by the installer.
- **System Rename**  
Verify that the schema name is the correct one for the system to be renamed and enter the password.

Back Next Cancel

- Select the import parameters as needed. In this example, the default is selected

1 Define Parameters 2 Review Parameters 3 Enable Service 4 Service Completed

### SAP HANA Import Parameters

Enter the import parameters

SAP HANA Import

Import Parameters

Configuration File *	Section *	Parameter Name *	Parameter Value *	Keep after Import
indexserver.ini	distribution	client_distribution_mode	statement	<input checked="" type="checkbox"/>
global.ini	table_placement	method	2	<input checked="" type="checkbox"/>
global.ini	table_placement	prefix	/	<input checked="" type="checkbox"/>
indexserver.ini	optimics_compression	mlt_hout_service_init_merge_of_join	0	<input type="checkbox"/>
indexserver.ini	merging	num_merge_buffers	200	<input type="checkbox"/>
indexserver.ini	merging	table_per_table	2	<input type="checkbox"/>
indexserver.ini	merging	critical_merge_decision_func	DMS12000 and (DUC<0.1 or 0.05*DCR--DUC)	<input type="checkbox"/>
indexserver.ini	merging	auto_merge_decision_func	DMS1000 and (DUC<0.1 or 0.05*DCR--DUC)	<input type="checkbox"/>
global.ini	persistence	savepoint_interval_s	300	<input type="checkbox"/>

Back Next Cancel

- Select the declustering option

1 Define Parameters 2 Review Parameters 3 Enable Service 4 Service Completed

### Declustering / Depooling Option

You can enable ABAP table declustering / depooling for your SAP system to implement the new SAP standard for the database table layout.

ABAP Table Declustering and Depooling

☒ Enable declustering / depooling of all ABAP tables

☐ Do not decluster / depool ABAP tables

Additional Information

The new SAP standard for the database table layout is implemented by default for SAP products based on SAP NetWeaver 7.50 and higher. The implementation is optional for SAP products based on SAP NetWeaver 7.4E. For more information, see SAP Note 1892354.

Select Enable declustering / depooling of all ABAP tables if you want to decluster / depool all ABAP tables in your target system.

Select Do not decluster / depool ABAP tables in the following cases:

- You want to install the target system without using declustering / depooling
- The table types of your target system are to be the same as in the source system.

Back Next Cancel

- Select the option for HANA table placement

1 Define Parameters 2 Review Parameters 3 Enable Service 4 Service Completed

### SAP HANA Table Placement Parameters

Enter the path to an SQL file containing SAP HANA table placement parameters.

Table Placement Parameters

Table Placement

☐ Use a parameter file

☒ Do not use a parameter file

Parameter File Location: C:\Program Files\agsap\pss\pss00174039

Additional Information

The SAP HANA table placement parameters are used to optimally create and, for a scale-out landscape, distribute all database tables. For a scale-out landscape, the SAP HANA landscape redistribution is executed after the table-creation phase to prevent import errors and to ensure a properly working SAP HANA system.

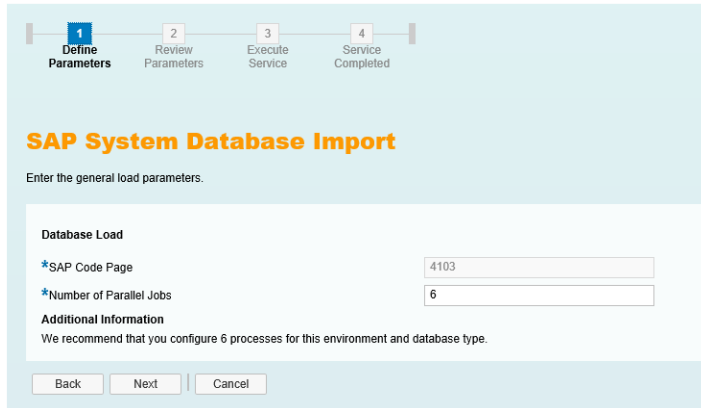
Before creating the tables, it is important to use the table placement parameters.

Caution: Not setting the parameters can lead to poor performance or out-of-memory errors. See SAP Note 1900827 for recommended parameter files and more information.

Copy the parameter file that is attached to SAP Note 1900827 into the directory Parameter File Location and rename it to hdbtableplacementparameters.sql. If you choose Use a parameter file, the installer verifies that the file exists. Setting the parameters is always important, even if the SAP HANA database is a single-node system.

Back Next Cancel

- Input the number of parallel jobs for r3load



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### SAP System Database Import

Enter the general load parameters.

**Database Load**

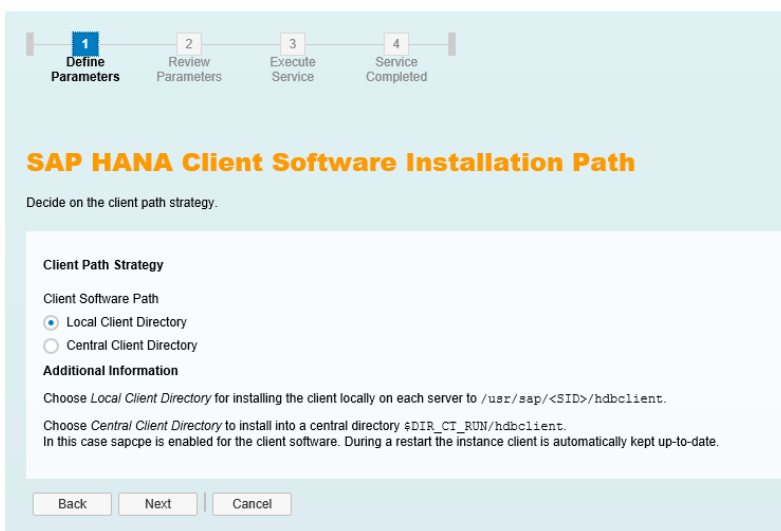
\*SAP Code Page

\*Number of Parallel Jobs

**Additional Information**  
We recommend that you configure 6 processes for this environment and database type.

Back Next Cancel

- Select the client path strategy



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### SAP HANA Client Software Installation Path

Decide on the client path strategy.

**Client Path Strategy**

Client Software Path

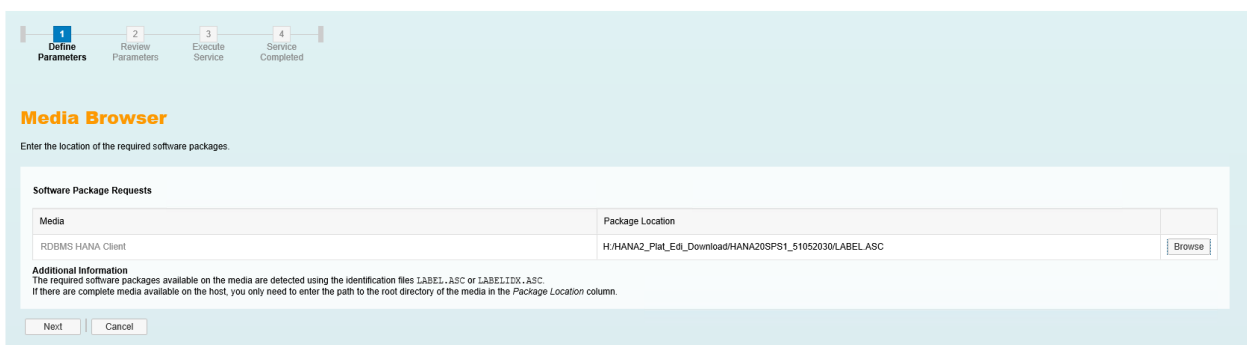
☒ Local Client Directory

☐ Central Client Directory

**Additional Information**  
Choose *Local Client Directory* for installing the client locally on each server to `/usr/sap/<SID>/hdbclient`.  
Choose *Central Client Directory* to install into a central directory `$DIR_CT_RUN/hdbclient`.  
In this case sapcpe is enabled for the client software. During a restart the instance client is automatically kept up-to-date.

Back Next Cancel

- Input the path of the HANA client package



1 Define Parameters 2 Review Parameters 3 Execute Service 4 Service Completed

### Media Browser

Enter the location of the required software packages.

**Software Package Requests**

Media	Package Location
RDBMS HANA Client	H:/HANA2_Plat_Ed1_Download/HANA20SPS1_51052030/LABEL.ASC

**Additional Information**  
The required software packages available on the media are detected using the identification files LABEL.ASC or LABELIDX.ASC.  
If there are complete media available on the host, you only need to enter the path to the root directory of the media in the Package Location column.

Next Cancel

- Review the inputs

**Parameter Summary**

Choose 'Next' to start with the values shown. Otherwise, select the parameters to be changed and choose 'Back'. You are then taken to the screen where you can change the parameter. You might be guided through other screens that have to be processed.

**Parameter List**

☐ Parameter Settings

Parameter Mode  
☐ Typical  
☐ Custom

☐ General SAP System Parameters

Profile Directory:

☐ Master Password

Password for All Users:

☐ DBS Database Name

☐ Set FGDN for SAP system

☐ Database for SAP System

Database ID (DBID):

Database Host:

Instance Number of the SAP HANA Database:

Password of the SAP HANA Database System Administrator:

☐ SAP HANA Multitenant Database Containers

Database Host:

- Installation in progress

1 Define Parameters    2 Review Parameters    **3 Execute Service**    4 Service Completed

**20%** Process is in running state

Checking account sachin-jb\SAP\_LocalAdmin for system H11...

Cancel

- Installation completed

1 Define Parameters    2 Review Parameters    3 Execute Service    **4 Service Completed**

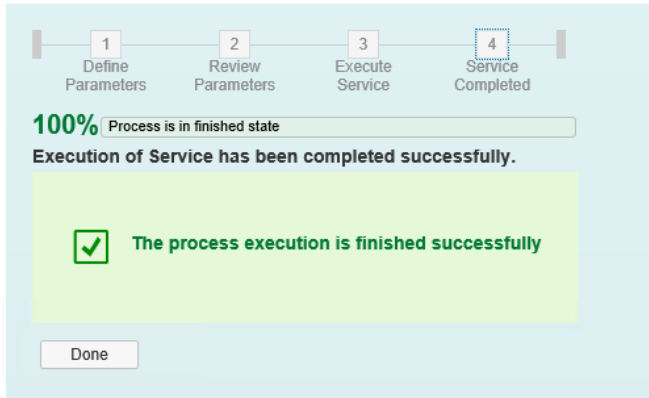
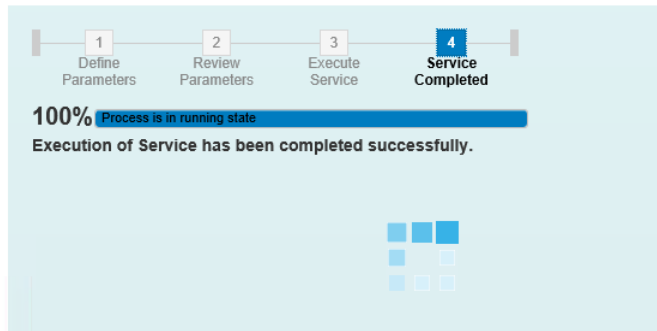
**100%** Process is in dialog state

Execution of Service has been completed successfully.

**Information**

Execution of  
 SAP NetWeaver 7.4 Support Release 2 > SAP HANA Database > Installation > Application Server ABAP > Distributed System > Database Instance  
 has completed.

OK

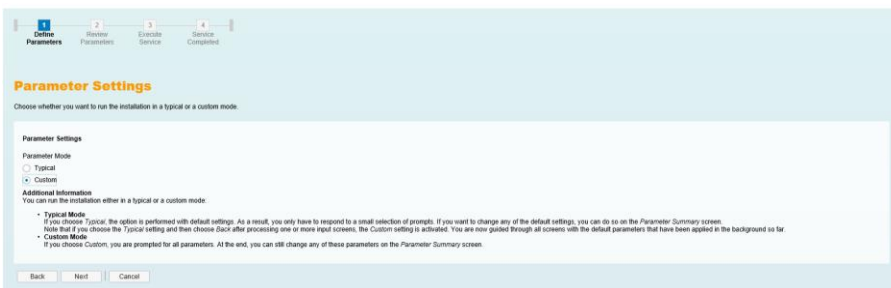


## Primary Application Server Installation

- Start the *sapinst* tool
- Select the Primary application server instance option



- Select the installation mode



- Select the profile location

- Input the master password

- Input the password for administrator and service user

- Input FQDN, if needs to be setup



**DNS Domain Name**

Enter the DNS domain name for the SAP system to calculate the fully qualified domain name (FQDN).

SAP System Domain Name

☐ Set FQDN for SAP system

☐ Set FQDN for SAP system

**Additional Information**

The DNS Domain Name is used to calculate the Fully Qualified Domain Name (FQDN), which is configured in profile parameter SAPLOCALHOSTFULL. This parameter is needed to define the URLs for the ABAP and Java application servers. See SAP Note 654882.

Back Next Cancel

- Input the kernel package location. You can also replace sapexe and sapexedb with the latest supported kernel, or you can update the kernel after the installation.

**Software Package Browser**

Specify the paths to complete DVD or Blu-ray media such as to a mounted kernel DVD, the path to a download folder containing all software packages, or the paths to several individual download locations of software packages.

Search Location

Specify the path to a SAP archive, to a download folder or to a DVD as Package Path

Package Path: H:\SAP\NetWeaver\Download\KernelName

Browse

**Archive Locations**

You can download the archives from the following locations on SAP Software Download Center:

SAPEXEC\_SAR can be replaced by your own version. SAPHOSTAGENT\_SAR T21 (Latest Patch), KOSERE\_SAR, KOSHELPER\_SAR

The table is updated with all packages that are found at the specified Package Path when you choose Next. You will remain on this screen and be able to add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the Package Path empty to continue.

Package Name	Individual Package Location	Status
SAPEXEC_SAR (any version supporting your release)		Not missing
SAPEXECED_SAR (matching SAPEXEC Version and Patch)		Not missing
SAPHOSTAGENT_SAR T21 (Latest Patch)		Not missing
KOSERE_SAR		Not missing
KOSHELPER_SAR		Not missing

**Additional Information**

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the SAP Software Download Center or - if available - using the Maintenance Planner.

If you have DVD or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later using the Software Update Manager (SUM).

Back Next Cancel

- Review the prerequisite checker

**Prerequisites Checker Results**

Read the results of the prerequisite analysis carefully.

**Attention**

Your host has been checked for compliance with the prerequisites.

- If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.
- In rare cases, you might decide to run the installation although not all prerequisites are met. The installation does not prevent you from doing this, but make sure that you know what you are doing.

Condition	Result Code	Severity	Message	More Information
Continuous Availability feature	Condition not met	HIGH	Continuous Availability feature on Windows Server 2012R2 can result in long waiting times. See also <a href="#">SAP Note 1823633</a> (Updated 2016-10-03)	Not available
Swap Size	Condition not met	MEDIUM	For the selected services at least 20480 MB swap space are recommended. Current value is: 1152 MB (Updated 2005-06-24)	<a href="#">Click here</a>

Back Next Cancel

**Question**

Your system does not meet some prerequisites or some prerequisites could not be evaluated.

Make sure that your system meets all conditions prompted by the prerequisite checker before you choose "Yes". Otherwise the "Prerequisites Checker Results" screen and this message will be displayed again.

If you choose "No", the prerequisites check is skipped.

Keep in mind that the prerequisite checker does not automatically change any settings.

Do you want to repeat the checks before continuing?

No Yes Cancel

- Input the system administrator password

**SAP HANA Database System Administrator**

Enter the password of the database system administrator.

SAP HANA Database System Administrator Password

Database ID: H11

Database Host: 10.35.0.175

\*Instance Number of the SAP HANA Database: 00

\*Password of the SAP HANA Database System Administrator: \*\*\*\*\*

☐ Initialize Database or Database Tenant

**Additional Information**  
 Choose Initialize Database or Database Tenant only if you have decided to delete all content of the database including all users, schemas, roles, and HANA content, in single databases the configuration is not realized. With a multi database container the tenant is dropped. Choose this option when you are doing a reinstall or a refresh of the system. The advantage of reinitializing compared to 'drop user' is that all data is deleted instantly, which leads to better performance during data import. Initialize Database Typing is only available for system copy.

Back Next Cancel

- Input the SystemDB parameters

**SAP HANA Multitenant Database Containers**

Enter the database parameters for the system database.

**System Database**

Database ID (DBSID): SystemDB

\*Database Host: 10.35.0.175

\*Instance Number of the SAP HANA Database: 00

\*Password of the SAP HANA Database Supersuser: \*\*\*\*\*

**Tenant Database**

Tenant ID: H11

☐ Recreate Database Tenant

**Additional Information**  
 Note that you can only use an existing SAP HANA multitenant database container. Specify the connectivity data. Choose Recreate Database Tenant only if you have decided to delete all content of the database tenant including all users, schemas, and roles. In addition, the tenant-specific configuration is initialized. Choose this option if you are doing a reinstall or a refresh of the system. The advantage of recreating the tenant database compared to 'drop user' is that all data is instantly deleted, which leads to better performance during data import. Recreate Tenant Database is only available for system copy.

Back Next Cancel

- Input the database schema password

**Database Schema**

Enter the database schema password.

**Database Schema**

Database ID: H11

Database Host: 10.35.0.175

Instance Number of the SAP HANA Database: 00

\*Schema: DBACOCKPIT

☐ Drop Existing Schema

\*Schema Password: \*\*\*\*\*

\*Confirm: \*\*\*\*\*

**Additional Information**  
 Follow the relevant instructions for your scenario:

- **Installation / System Copy / Migration (Load-based)**  
 The schema must either not exist in the database or if it exists, the checkbox for dropping the existing schema must be checked, in which case all data in the existing schema is deleted. The only exception is the DBACOCKPIT schema, which can be used by multiple systems and does not have to be dropped if it exists.
- **Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**  
 For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by the installer.
- **System Rename**  
 Verify that the schema name is the correct one for the system to be renamed and enter the password.

Back Next Cancel

**Database Schema**

Enter the database schema password.

Database Schema

Database ID: H11

Database Host: 10.35.8.175

Instance Number of the SAP HANA Database: 00

\*Schema: SAPABAP1

☐ Drop Existing Schema

\*Schema Password: \*\*\*\*\*

\*Confirm: \*\*\*\*\*

**Additional Information**

Follow the relevant instructions for your scenario:

- Installation / System Copy / Migration (Load-Based)**  
The schema must either not exist in the database or if it exists, the checkbox for dropping the existing schema must be checked, in which case all data in the existing schema is deleted. The only exception is the DBACOCKPIT schema, which can be used by multiple systems and does not have to be dropped if it exists.
- Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**  
For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored. Enter the same password as in the backup. The password is not changed by the installer.
- System Rename**  
Verify that the schema name is the correct one for the system to be renamed and enter the password.

Back Next Cancel

- Input the PAS instance number and the host name

**Primary Application Server Instance**

Enter the instance parameters for the primary application server (PAS) instance.

The following SAP system instances already exist on this host:

SAP System ID (SAPSID)	Instance Name	Instance Number
H11	ASCS00	00

#PAS Instance Number: 01

#PAS Instance Host Name: sachin-jb

**Additional Information**

The instance number and host name are technical identifiers for controlling internal processes, such as assigned memory. The host name can be either the physical host name or one of the virtual host names. In a high-availability system installation, use a virtual host name. The instance number must be unique for the installation host.

Back Next Cancel

- Review the port number

**ABAP Message Server Ports and Transport Host**

Enter the required message server ports and transport host.

ABAP Message Server Ports

\*ABAP Message Server Port: 3600

\*Internal ABAP Message Server Port: 3900

Transport Host

\*Host with Transport Directory: sachin-jb

**Additional Information**

The instance-specific internal ABAP Message Server Port for internal communication and the ABAP Message Server Port are required as unique communication channels. By default, the installer creates the transport directory on the global host (UNIX: /usr/sap/trans, Windows: %usr/sap/trans). You can also use a transport directory located on a host other than the default host.

Back Next Cancel

- Input the password for webadm for web dispatcher

**ICM User Management for the SAP Web Dispatcher**

Enter the password for the web administration user 'webadm' used by the SAP Web Dispatcher.

Internet Communication Manager (ICM) User Management

\*Password of 'webadm': \*\*\*\*\*

\*Confirm: \*\*\*\*\*

**Additional Information**

An administration user webadm is created to use the web administration interface for the Internet Communication Manager (ICM) and SAP Web Dispatcher.

Back Next Cancel

- Select the SLD option

**SLD Destination for the SAP System OS Level**

Enter the destination of the System Landscape Directory (SLD).

**Register in System Landscape Directory**

☐ Use existing SLD for registration  
☒ No SLD destination

**Connect Data for Existing SLD**

☐ Use HTTPS

SLD Host:   
 SLD HTTP(S) Port:   
 SLD Data Replicator User:

Parameter of SLD Data Replicator User:

**Additional Information**

The System Landscape Directory (SLD) should register the installed software of your entire system-landscape. The SLD destination is configured in the file system and can be used by the SAP application server kernel as described in the SAP Notes 1717046 and 1010838. After you have completed the configuration, the registration data supplied is needed to send operating system information to the SLD.

After installation has finished, you perform the technical configuration as described in the installation guide to complete the SLD configuration of the SAP NetWeaver application server.

Back Next Cancel

- Select the option for ACL

**Message Server Access Control List**

Specify if you want to have a message server Access Control List (ACL) created.

**Message Server Access Control List**

☐ Create Message Server Access Control List  
☒ Do not create Message Server Access Control List

**Additional Information**

The ACL is created as a file in the %system%->%SAPSID%-global directory. If it exists, it defines the hosts from which the message server accepts requests.

**Caution:** Only trigger the creation of this file if you do not plan to install any additional instances for this system. With the creation of this ACL, you overwrite existing settings and prevent instances from being installed on additional hosts.

If you decide to install an additional instance later, you need to remove this file manually before the installation and create it again after the installation of the additional instance.

For more information, see the information about msacl\_info in SAP Notes 1495075 and 826779.

Back Next Cancel

- Input the export1 package location

**Media Browser**

Enter the location of the required software packages.

**Software Package Requests**

Media	Package Location
Installation Export (NW740 SR2 (delta) (EXP1))	H:\SAP\NW74\Download\NW74\bin\51050618_1\DATA_UNITS\EXP1

**Additional Information**

The required software packages available on the media are detected using the identification file LABEL\_SDC or LABEL\_COPY\_SDC.

If there are complete media available on the host, you only need to enter the path to the root directory of the media in the Package Location column.

Next Cancel

- Input the DDIC password

**SAP System DDIC Users**

Enter the password of DDIC user.

**DDIC User**

☐ DDIC User Has a Password Different From Default

**DDIC Password**

Account: DDIC, client: 000

Password of DDIC in Client: 000

**Additional Information**

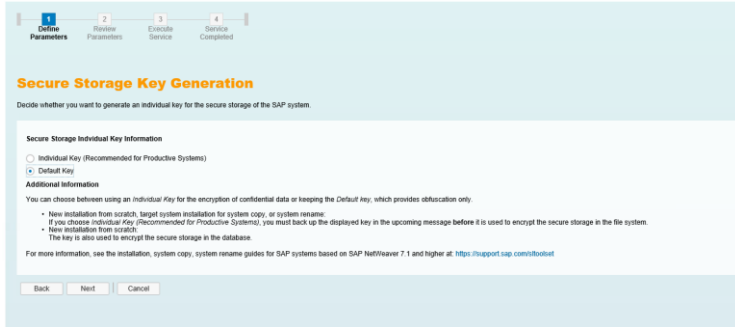
An RFC connection needs to be created to the system that you are installing. Only if the passwords of the DDIC users were changed after database load and differ from the default passwords, you have to specify them here.

If you are not sure, do not specify the passwords. You will be prompted for them again if they are needed.

A SAP System Client is a self-contained unit in an SAP system with separate master records and its own set of tables. ABAP user data is SAP System Client-specific.

Back Next Cancel

- Select the storage key option



**Secure Storage Key Generation**

Decide whether you want to generate an individual key for the secure storage of the SAP system.

**Secure Storage Individual Key Information**

☐ Individual Key (Recommended for Productive Systems)

☒ Default Key

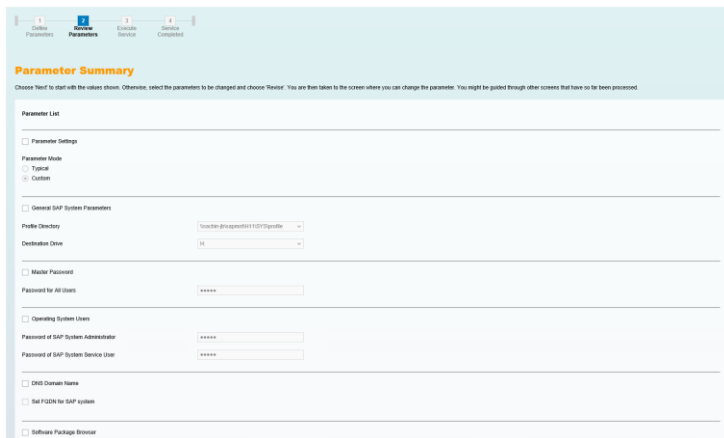
**Additional Information**

You can choose between using an individual key for the encryption of confidential data or keeping the Default key, which provides obfuscation only.

- New installation from scratch, target system installation for system copy, or system rename.
- If you choose individual key (Recommended for Productive Systems), you must back up the displayed key in the upcoming message before it is used to encrypt the secure storage in the file system.
- New installation from scratch.
- The key is also used to encrypt the secure storage in the database.

For more information, see the installation, system copy, system rename guides for SAP systems based on SAP NetWeaver 7.1 and higher at: <https://support.sap.com/en/bsa>

- Review the input parameters



**Parameter Summary**

Choose Next to start with the values shown. Otherwise, select the parameters to be changed and choose 'Review'. You are then taken to the screen where you can change the parameter. You might be guided through other screens that have so far been processed.

**Parameter List**

☐ Parameter Settings

**Parameter Mode**

☐ Typical

☒ Custom

☐ General SAP System Parameters

**Profile Directory**

**Destination Drive**

☐ Master Password

**Password for All Users**

☐ Operating System Users

**Password of SAP System Administrator**

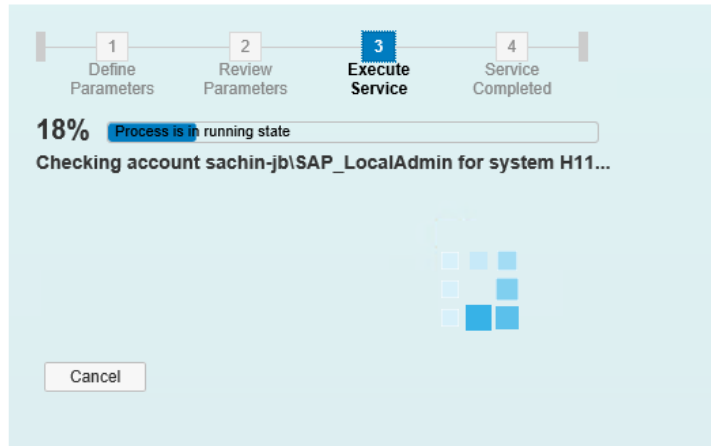
**Password of SAP System Service User**

☐ DNS Domain Name

☐ Set FQDN for SAP system

☐ Software Package Browser

- Installation started



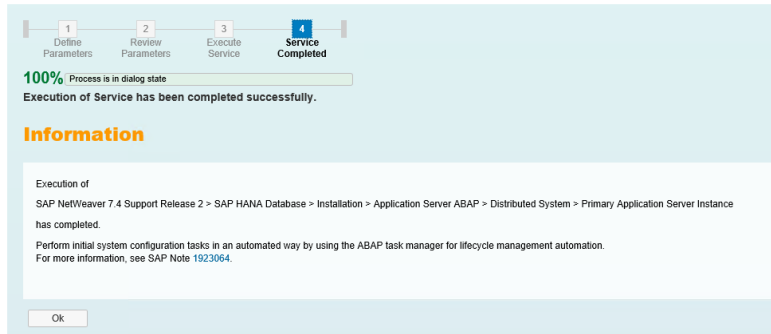
**Execute Service**

1 Define Parameters 2 Review Parameters 3 **Execute Service** 4 Service Completed

18% **Process is in** running state

Checking account sachin-jb\SAP\_LocalAdmin for system H11...

- Installation is complete



## Post Installation

You are done with the SAP NetWeaver and HANA database installation. You can start the SAP instance using SAP MMC and can login with SAP GUI to access your SAP application instance.

You still need to perform various post installation activities like license install, client copy, TMS setup, etc., which is not the scope of this document.